



**TROPICAL CYCLONE BULLETIN NO. 16**

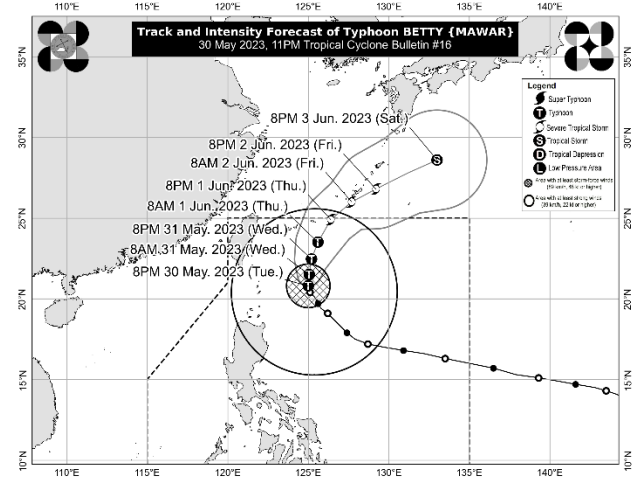
**Typhoon BETTY (MAWAR)**

Issued at 11:00 PM, 30 May 2023

Valid for broadcast until the next bulletin at 5:00 AM tomorrow.


**TYPHOON BETTY CONTINUES TO MOVE SLOWLY OVER THE SEA EAST OF BATANES**

<b>Location of Center (10:00 PM)</b>
The center of the eye of Typhoon BETTY was estimated based on all available data at <b>320 km East Northeast of Basco, Batanes</b> or <b>330 km East of Itbayat, Batanes (21.0°N, 125.0°E)</b>
<b>Intensity</b>
Maximum sustained winds of <b>130 km/h</b> near the center, gustiness of up to <b>160 km/h</b> , and central pressure of <b>965 hPa</b>
<b>Present Movement</b>
<b>Northward Slowly</b>
<b>Extent of Tropical Cyclone Winds</b>
<b>Strong to typhoon-force winds</b> extend outwards up to <b>630 km</b> from the center



**TRACK AND INTENSITY FORECAST**

Date and Time	Center Position			Intensity		Movement dir. and speed (km/h)
	Lat. (°N)	Lon. (°E)	Location	MSW (km/h)	Cat.	
<b>12-Hour Forecast</b> 8:00 AM 31 May 2023	21.5	125.1	350 km East Northeast of Itbayat, Batanes	130	TY	N Slowly
<b>24-Hour Forecast</b> 8:00 PM 31 May 2023	22.5	125.2	395 km East Northeast of Itbayat, Batanes	120	TY	N 10
<b>36-Hour Forecast</b> 8:00 AM 01 June 2023	23.5	125.6	490 km Northeast of Itbayat, Batanes	120	TY	NNE 10
<b>48-Hour Forecast</b> 8:00 PM 01 June 2023	24.9	126.4	655 km Northeast of Itbayat, Batanes	110	STS	NNE 15
<b>60-Hour Forecast</b> 8:00 AM 02 July 2023	26.0	127.7	835 km Northeast of Extreme Northern Luzon (OUTSIDE PAR)	100	STS	NE 15
<b>72-Hour Forecast</b> 8:00 PM 02 June 2023	26.8	129.2	1,005 km Northeast of Extreme Northern Luzon (OUTSIDE PAR)	95	STS	ENE 15
<b>96-Hour Forecast</b> 8:00 PM 03 June 2023	28.6	133.0	1,425 km Northeast of Extreme Northern Luzon (OUTSIDE THE PAR)	85	TS	ENE 20

Prepared by:   
**PCDM**

Checked by:   
**RPG**



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TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
<b>2</b> Wind threat: <b>Gale-force winds</b>	<b>Batanes</b>	-	-
	Warning lead time: <b>24 hours</b> Range of wind speeds: <b>62 to 88 km/h (Beaufort 8 to 9)</b> Potential impacts of winds: <b>Minor to moderate threat to life and property</b>		
<b>1</b> Wind threat: <b>Strong winds</b>	<b>Cagayan including Babuyan Islands, the northern and eastern portions of Isabela</b> (Santo Tomas, Santa Maria, Quezon, San Mariano, Dinapigue, Delfin Albano, San Pablo, Ilagan City, Benito Soliven, Tumaui, Cabagan, Palanan, Quirino, Divilacan, Gamu, Maconacon, Naguilian, Mallig), <b>the eastern portion of Ilocos Norte</b> (Piddig, Bangui, Vintar, Marcos, Pagudpud, Banna, Adams, Carasi, Dingras, Solsona, Dumalneg, Nueva Era), <b>Apayao</b> , <b>the northern portion of Kalinga</b> (City of Tabuk, Balbalan, Pinukpuk, Rizal), and <b>the northeastern portion of Abra</b> (Tineg, Lacub, Malibcong)	-	-
	Warning lead time: <b>36 hours</b> Range of wind speeds: <b>39 to 61 km/h (Beaufort 6 to 7)</b> Potential impacts of winds: <b>Minimal to minor threat to life and property</b>		

HAZARDS AFFECTING LAND AREAS
<p><b>Heavy Rainfall Outlook</b></p> <p><b>Forecast accumulated rainfall from tonight to tomorrow evening</b></p> <ul style="list-style-type: none"> <li>• <b>50-100 mm:</b> Ilocos Norte, Ilocos Sur, La Union, Abra and the western portion of Benguet.</li> </ul> <p>Under these conditions, <b>flooding and rain-induced landslides are possible</b>, especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities that experienced considerable amounts of rainfall for the past several days.</p> <p><b>For more information on the areas affected by occasional to frequent rains from the Southwest Monsoon enhanced by BETTY, refer to the Weather Advisory #4 for Southwest Monsoon issued at 11:00 PM today.</b></p> <p><b>Severe Winds</b></p> <ul style="list-style-type: none"> <li>• <b>No changes in areas under Wind Signal Nos. 1 and 2 from the previous bulletin.</b></li> <li>• Minor to moderate impacts caused by gale-force winds remain possible within the areas where Wind Signal No. 2 is hoisted. Minimal to minor impacts from strong winds (i.e., strong breeze to near gale strength) are also possible within any of the areas where Wind Signal No.1 is currently in effect.</li> <li>• The <b>enhanced Southwest Monsoon</b> will bring <b>occasional to frequent gusts</b> over Bicol Region, Western Visayas, Aurora, Quezon, the northern portion of mainland Palawan including Calamian and Cuyo Islands, Mindoro Provinces, Romblon, and the remaining areas of Ilocos Region and Cordillera Administrative Region that are not under any Wind Signal.</li> </ul>
HAZARDS AFFECTING COASTAL WATERS
<p>Under the influence of Typhoon BETTY and the enhanced Southwest Monsoon, a <b>marine gale warning remains in effect</b> over the seaboard of Northern Luzon, eastern seaboard of Central Luzon, Southern Luzon, and Visayas. For more information, refer to <b>Gale Warning #7</b> issued at 5:00 PM today.</p>

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Checked by:  RPG



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### Typhoon BETTY (MAWAR)

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#### TRACK AND INTENSITY OUTLOOK

- Typhoon BETTY is forecast to generally move slowly northward tonight until tomorrow over the waters east of Batanes. Afterwards, the typhoon will gradually accelerate north northeastward on Thursday and northeastward or east northeastward on Friday and Saturday. On the forecast track, the BETTY will exit the Philippine Area of Responsibility (PAR) on Thursday evening or Friday early morning. Outside the PAR, the tropical cyclone will pass very close or make landfall in the vicinity of central Ryukyu Islands (e.g., Okinawa Is.)
- This typhoon is forecast to steadily weaken over the next five days due to cooler ocean waters (caused by upwelling of cooler waters in its wake), dry air intrusion, and increasing vertical wind shear. BETTY may be downgraded into a severe tropical storm on Thursday and into a tropical storm on Friday. However, given the extent of the effect of dry air intrusion on the typhoon, a **faster weakening rate within the forecast period is not ruled out**. BETTY may begin its transition into a post-tropical cyclone on Saturday or Sunday, although this will occur outside the PAR region.

Considering these developments, the public and disaster risk reduction and management offices concerned are advised to take all necessary measures to protect life and property. Persons living in areas identified to be highly or very highly susceptible to these hazards are advised to follow evacuation and other instructions from local officials. **For heavy rainfall warnings, thunderstorm/rainfall advisories, and other severe weather information specific to your area, please monitor products issued by your local PAGASA Regional Services Division.**

The next tropical cyclone bulletin will be issued at 5:00 AM tomorrow.

**DOST-PAGASA**

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Checked by:  RPG